Attorney Docket No.

028754-039

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

Douglas D. Ross et al.

Application No.: 09/961,086

Filing Date: .

September 21, 2001

Group Art Unit: 1642

Examiner: SUSAN NMN UNGAR

Confirmation No.: 6592

Title: BREAST CANCER RESISTANCE PROTEIN (BCRP) AND THE DNA WHICH ENCODES IT

FOURTH INFORMATION DISCLOSURE STATEMENT TRANSMITTAL LETTER

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:					
	closed is a FOL 49 for the above-ident			sclosure Statement and accompany	ing form
1.21 tha	A statement under 3 A statement under 3 § 1.17(p) are also er Charge A check in the amou Charge e Director is hereby au	(1806) as set forth in 7 C.F.R. § 1.97(e) is 7 C.F.R. § 1.97(e), a nclosed. to Deposit Account nt of i to credit card. For the country is the country	also end the total No. 0. s encloorm PT	F.R. § 1.17(p) is also enclosed. nclosed. fee of \$180.00 (1806) as set forth 2-4800 for the fee due. osed for the fee due.	l6, 1.17 and
			Res	spectfully submitted,	
			BUI	RNS, DOANE, SWECKER & MATH	IS, L.L.P.
P.O. Bo Alexand (703) 83	dria, Virginia 22313-14	04	Ву	Malcolm K. McGowan, Ph.D.	Jam
Date: S	September 3, 2004			Registration No. 39,300	

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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SEP 0 3 2004

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FOURTH INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, the accompanying information is being submitted in accordance with 37 C.F.R. §§ 1.97 and 1.98.

Pursuant to 37 C.F.R. § 1.98, a copy of each of the documents cited is enclosed, along with a copy of the International Search Report issued in the corresponding PCT application (PCT/US99/02577).

Copies of these references were previously cited in an Information Disclosure Statement filed with the application on September 21, 2001. These references were apparently separated from the application papers and lost and so they are now being resubmitted in response to the Examiner's request.

It is not believed that a fee is due in connection with this filing. However, if any fees are due, authorization is given to charge our Deposit Account No. 02-4800.

FOURTH Information Disclosure Statement Application No. 09/961,086
Attorney's Docket No. 028754-039
Page 2

To assist the Examiner, the documents are listed on the attached form PTO-1449. It is respectfully requested that an Examiner initialed copy of this form be returned to the undersigned.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

Date September 3, 2004

Malcolm K. McGowan, F Registration No. 39,300

P.O. Box 1404 Alexandria, Virginia 22313-1404 (703) 836-6620 028754-039

Washington, DC 20231

NON-PROVISIONAL UTILITY PATENT APPLICATION TRANSMITTAL - 37 CFR 1.53(b)

[] Duplicate (check, if applicable)

Assistant Commissioner for Patents **BOX PATENT APPLICATION**

SEP 0 3 2004

OIP Attorney Docket No. 10312-7 (053836-5001) First Named Inventor: Ross

Express Mail Label No. EL719362045US

Total Pages of Transmittal Form: 2

Transmitted herewith for filing is the non-provisional utility patent application entitled: BREAST CANCER RESISTANCE PROTEIN (BCRP) AND THE DNA WHICH **ENCODES IT**

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a	[]		nuation, [X] Divisional, or [] Continuation-in-part (CIP)
		of prior	r Application No. <u>09/245,808</u> filed <u>FEBRUARY 5, 1999</u> .
		Anticip	pated Group/Art Unit: or Class, Subclass
[]		This no	on-provisional patent application is based on Provisional Patent Application No
			filed
Enc	los	ed are:	
		[X]	Specification (including Abstract) and claims: 53 pages.
			Application Data Sheet.
			Newly executed/unexecuted Declaration (original/copy).
		[X]	Copy of Declaration from prior application.
		[]	Separate Power of Attorney (including 37 CFR 3.73(b) statement, if applicable).
		[22]	sheets of drawings (formal) plus one copy.
			Microfiche computer program (Appendix).
		[X]	Nucleotide and/or Amino Acid Sequence Submission, including:
			[X] Computer readable copy [X] Paper Copy [X] Verified
Stat	em	ent.	
		[]	Under PTO-1595 Cover Sheet, an assignment of the invention
		[X]	Name of Assignee: University of Maryland Baltimore
		[]	Certified copy(ies) of Application No(s) filed is/are filed:
		()	[] herewith or [] in prior application &@.
		[X]	Applicant(s), by its/their undersigned attorney, claim(s) Small Entity Status under
		[]	37 C.F.R. §1.27 as [] an Independent Inventor, or [] a Small Business Concern,
			or [X] a Non-Profit Organization.
		[X]	Preliminary Amendment.
			Information Disclosure Statement and PTO-1449.
		[X]	Request for Nonpublication of Application Under 35 U.S. C. \$122(b)
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The filing fee is calculated as follows:

			SMALI	ENTITY		LARGI	ENTITY
CLAIMS	NO. FILED	NO. EXTRA		IC FEE: 355			IC FEE: 710
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- The Commissioner is not authorized to charge the filing fee at this time as we elect to defer payment of the entire filing fee until receipt of a Notice to File Missing Parts.
- [X] A check in the amount of \$355.00 to cover the filing fee is enclosed.
- [X] The Commissioner is hereby authorized to charge and/or credit **Deposit Account**No. 50-0310 (Billing No. 503836-5001) as noted below. A duplicate copy of this sheet is enclosed.
 - [X] Any overpayments or deficiencies in the above-calculated fee.
 - [] Filing fee in the amount of \$_____ as calculated above.

ROSS, et al.

- [X] Any additional fees required under 37 C.F.R. § 1.16 and § 1.17.
- [X] In the event that a Petition for Extension of Time is required during the prosecution of this application, but not submitted, please charge any extension fee under 37 C.F.R. § 1.136(a) to our Deposit Account noted above.

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(Date)

By:

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Attorney for Applicants

[X] Customer Number or Bar Code Label: 028977

KD/kck Enclosures



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re:

Patent Application of

Ross

Appln. No.:

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Herewith

For:

BREAST CANCER RESISTANCE

PROTEIN (BCRP) AND THE DNA

ENCODES IT

: Group Art Unit Not Yet Assigned

: Examiner: Not Yet Assigned

: Attorney Docket

: No. 53836-5001

INFORMATION DISCLOSURE STATEMENT

It is requested that the enclosed reference(s) listed on the attached Information Disclosure Citation Form PTO-1449 be considered by the Patent Examiner in connection with the above-identified application and be made of record therein.

Independent consideration and acknowledgment of the enclosed reference(s) are respectfully requested.

Respectfully submitted,

ROSS, et al.

REPIEMBER 21, 2001

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Attorney for Applicants

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FORM PTO 1449	ATTY. DOCKET NO.	APPLICATION NO.
INFORMATION DISCLOSURE STATEMENT	10460-7 (53836-5001)	Not Yet Assigned
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		028754-039
	Ross et al.	
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U.S. PATENT DOCUMENTS

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Reduced Intracellular Drug Accumulation in the Absence of P-Glycorprotein (mdr1) Overexpression in Mitoxantrone-resistant Human MCF-7 Breast Cancer Cells, Masayuki Nakagawa, Erasmus Schneider, Katharine H. Dixon, Julie Horton, Kristin Kelly, Charles AD 1 . Morrow, Kenneth H. Cowan, Cancer Research, Vol. 52, 6175-6181, November 15, 1992. Cross-Resistance to Camptothecin Analogues in a Mitoxantrone-resistant Human Breast Carcinoma Cell Line Is Not Due to DNA Topoisomerase I Alterations, Chih-Hsin J. Yang, Julie K. Horton, Kenneth H. Cowan and Erasmus Schneider, Cancer Research Vol. 55, pp. ΑE 1 4004-4009, September 15, 1995. Characterization of Adriamycin-reisitant Human Breast Cancer Cells Which Display Overexpression of a Novel Resistance-related Membrane Protein, Yi-Nan Chen, Lyn A. Mickley, Arnold M. Scwartz, Edward M. Action, Jaulang Hwang, and Antonio T. Fojo, AF 1 The Journal of Biological Chemistry, Vol 265, No 17, pp10073-10080, June 15, 1999. Membrane Vesicle Formation Due A Quired Mitoxantrone Resistance in Human Gastric AG Carcinoma Cell Line EPG85-257, Married Dietel, Hartmut Arps, Hermann Lage and Axel Niendorf, Cancer Research, Vol. 50, 6100-6106, September 15, 1990. Different Mechanisms of Decreased Drug Accumulation in Doxorubicin and mitoxantrone AH 1 resistant variants of the MCF7 Human Breast Cancer Cell line, C.W. Taylor, W.S. Dalton, P.R. Parrish, M.C. Gleason, W.T. Bellamy, F.H. Thompson, D.J. Roe and J.M. Trent, J. Cancer Vol. 63, pp. 923-929, (1991). Fumitremorigin C Reverse Multidrug Resistance in Cells Transfected with the Breast ΑI 1 Cancer Resistance Protein, Sridhar K. Radindran, Douglas D. Ross, L. Austin Doyle, Weidong Yang, and Lee M. Greenberger, Cancer Research, Vol. 60, pp. 47-50, January 1, Analysis of MRP mRNA in Mitoxantrone-Selected, Multidrug-Resistant Human Tumor AJ 1 Cells, Bernard W. Futscher, Mohammad R. Abbaszadegan, Federick Domann, and William S. Dalton, Biochemical Pharmacology, Vol. 47, No. 9 pp. 1601-1606, 1994. Cytogenetic and Phenotypic Analysis of a Human Colon Carcinoma Cell Line Resistant 1 AK To Mitoxantrone, William S. Dalton, Anne E. Cress, David S. Alberts and Jeffery M. Trent, Cancer Research, Vol. 48, 1882-1888, April 1, 1988.

EXAMINER DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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FORM PTO 1449	ATTY. DOCKET NO.	APPLICATION NO.
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OFM	ΑE	<u>1</u> ·	Isolated of Amplified and Overexpressed DNA sequences from Adriamycin-resistant Human Brest Cancer Cells, Craig R. Fairchild, S. Percy Ivy, Chien-Song Kao-Shan, Jacqueline Whang-Peng, Neal Rosen, Mark A. Israel, Peter W. Melera, Kenneth H. Cowan, And Merrill E. Goldsmith, Cancer Research, Vol 47, pp. 5141-5148, October 1, 1987.
	AF	·	Reversion of Multidrug Resistance in the P-glycorprotein-positive Human Pancreatic Cell Line I (EPP85-181RDB) by Introduction of a Hammerhead Ribzyme, P.S. Holm, K.J. Scanlon, and M. Dietel.
-	AG	1	Novel Mechanisms of Drug Resistance in Leukemia, DD Ross, 2000
	AH	1	Cloning of DNA Sequences from the White Locus of D. Melanogaster by a Novel and General Method, Cell, Vol. 25, pp. 693-704, September 1981.
	AI	1	Studies on the Mechanism of Fatty Acid Synthesis, E.L. Pugh and Salih J. Wakil, The Journal of Biological Chemistry, Vol. 240, No. 12, December 1965.
	AJ	1	DNA Sequence of the White Locus of Drosophila Melanogaster, Devin O'Hare, Christine Murphy, Robert Levis and Gerald M. Rubin, J. Mol.Bol. Vol. 180, pp. 437-455.
	AK	1	Camptothecin Resistance: Role of the ATP-binding Cassette (ABC), Mitoxantrone-resistance Half Transporter (MXR), and Potential for Glucuronidation in MXR-expressing Cells, Cancer Research, Vol. 59, pp. 5938-5946, December 1, 1999
	AL	1	Cellular Resistance to Actinomycin D in Chinese Hamster Cells in Vitro: Cross Resistance, Radioautographic and Cytogenetic Studies, June L. Biedler and Hansjorg Riehm, Cancer Research, Vol. 30, pp. 1174-1184, April 1970.
	AM	1	Isolation of Amplified and Overexpressed DNA Sequences from Adriamycin-Resistant Human Breast Cancer Cells, Craig R. Fairchild, S. Percy Ivy, Chien-Song Kao-Shan, Jacqueline Whang-Peng, Neal Rosen, Mark A. Israel, Peter W. Melera, Kenneth H. Cowan, and Merrill E. Goldsmith, Cancer Research 47, pp. 5141-5148, October 1, 1987.
	AN	1	Multidrug Resistance in Mitoxantrone-selected HL-60 Leukemia Cells in the Absence of P-Glycoprotein Overexpression, W. Grzydon Harker, D. Lynn Slade, William S. Dalton, Paul S. Meltzer and Jeffrey M. Trent, Cancer Research, Vol. 49, pp. 4542-4549, August 15, 1989.
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			I .	on, Peng I	iang, and Arthur B. Pa	ırdee, Science,	Vol. 257, pp. 96	7-971, August 14,			
	- A T	1	1992.	oce of a cT	ONA from the Drosoph	ila Melanoose	ter White Gene N	Nucleic Acids			
	AJ	1			8, No. 6, pp. 1633, Feb			TUCIOLO FICIUS			
	AK	1	Contin	uous Cult	ures of Fused Cells Sec	creting Antibo	dy of Predefined	Specificity, Nature,			
			G. Kol	nler, C. Mi	ilstein, Vol. 256, Augus	st 7, 1975.					
	AL	1			tivity of Carcinoembry						
					oshi Kawaharata, Yuji						
	434	1	Two	I INAKAZAN	o, and Kohzoh Imai, In minal Truncated Cytor	nlasime Forms	of Tonoisomerse	э ь, 1337. e П in a VP-16-			
	AM	1	Selecte	ed Ling C	ancer Cell Line Result	s from Partial	Gene Deletion an	d Alternative			
					Yu, Shelagh E. L. Mirs						
L					ol. 36, pp. 5868-5877,	1997.					
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·	Ross et al.	28754-039
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U.S. PATENT DOCUMENTS

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

 		Tible (including radios, Tide, Date, 1 criment 1 ages, etc.)
AR	1	H19 Gene Overexpression in Atypical Multidrug-resistant Cells Associated with Expression of a 95-Kilodalton Membrane Glycoprotein, L. Austin, Weidong Yang, Arung, Arun K. Rishi, Yongming Gao, and Douglas D. Ross, Cancer Research 56, 2904-2904, July 1, 1996.
AS	1	A multidrug resistance transporter form human MCF-7 breast cancer cells, L. Austin Doyle, Weidong Yang, Lynne V. Abruzzo, Tammy Krogmann, Yongming Gao, Arun K. Rishi, and Douglas D. Ross. Proc. Natl. Acad. Sci. USA, Vol 95, pp. 15665-15670, December 1998, Medical Sciences.
AT	1	A Human Placenta-Specific ATP-Binding Cassette Gene (ABCP) on Chromosome 4q22 That Is Involved in Multidrug Resistance. Rando Allikmets, Lynn M. Schriml, Amy Hutchinson, Vincenzo Ramano-Spica, and Michael Dean, Cancer 5337-5339, December 1, 1998.

EXAMINER DATE CONSIDERED

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	AT	1	Cloning Gene an Lalioti,	g of the cD nd Mappin Audrey, L	NA for a Human H g to Chromosome 2 ynn, Aravinda Cha 66-75, 1996	lomoloromo 21q22.3. H	osome 2 Iaiming	21q22.3gue of the Chen, Colette Ro	e Drosophila White ossier, Maria D.
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